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THE STATE OF THE STATES 1987

2

APPENDIX

FUND FOR RENEWABLE ENERGY & THE ENVIRONMENT

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Introduction

The Soil Conservation Appendix, one of six appendices designed to supplement the data presented in the 1987 State of the States report, has been compiled to allow a more detailed look at soil conservation on the state level. It provides a national picture of soil conservation efforts through maps and detailed data, and it allows comparison of the problems states face and their legislative and program responses.

Information from the main report--state rankings, primary map, brief text and primary matrix are presented in the forward section of the packet. Additional matrix information and maps, as well as soil conservation contacts are also included.

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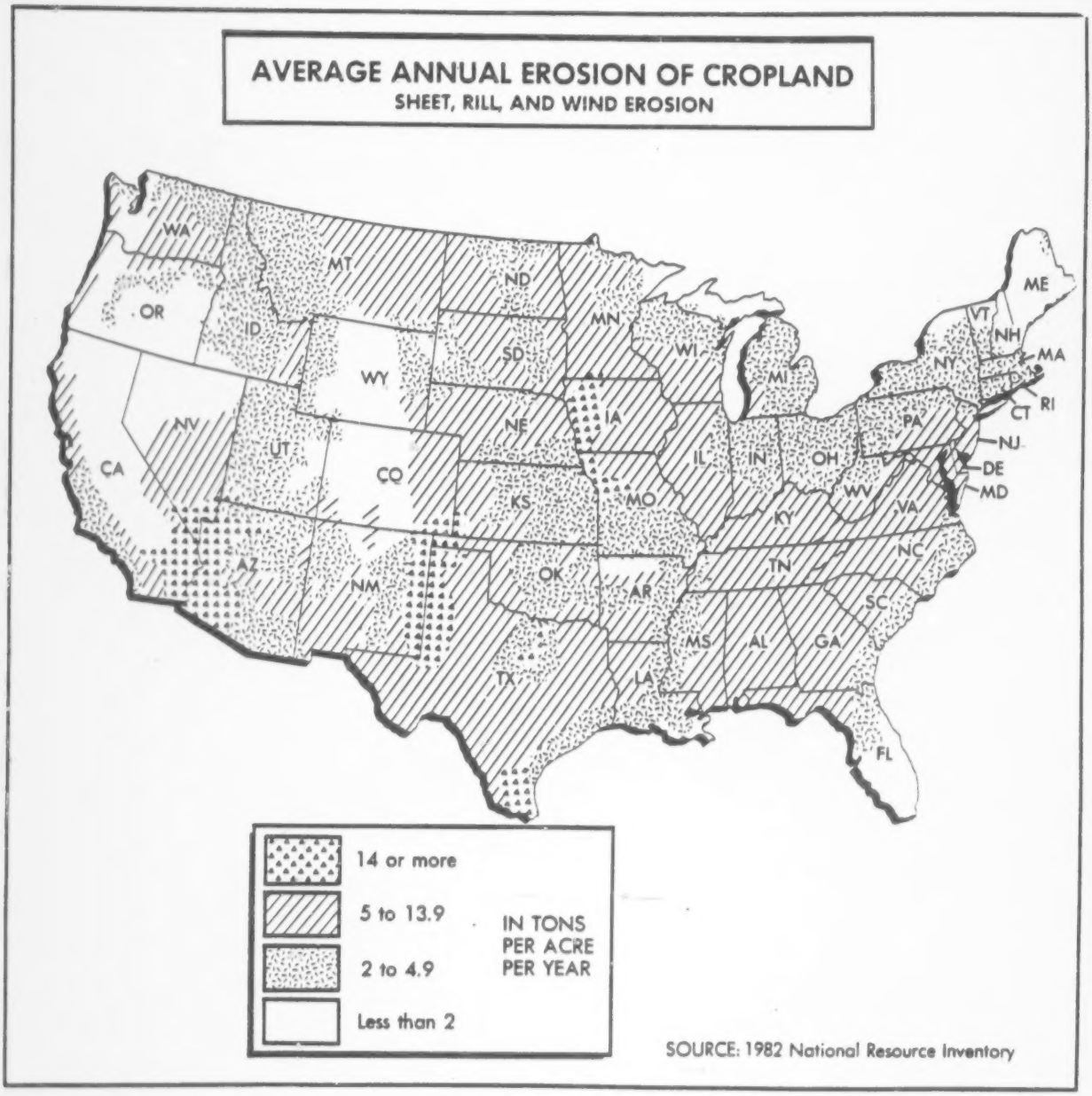
STATE ABBREVIATIONS

AL	ALABAMA
AK	ALASKA
AZ	ARIZONA
AR	ARKANSAS
CA	CALIFORNIA
CO	COLORADO
CT	CONNECTICUT
DE	DELAWARE
FL	FLORIDA
GA	GEORGIA
HI	HAWAII
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
IA	IOWA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
ME	MAINE
MA	MASSACHUSETTS
MI	MICHIGAN
MN	MINNESOTA
MS	MISSISSIPPI
MO	MISSOURI
MT	MONTANA
NE	NEBRASKA
NV	NEVADA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NY	NEW YORK
NC	NORTH CAROLINA
ND	NORTH DAKOTA
OH	OHIO
OK	OKLAHOMA
OR	OREGON
PA	PENNSYLVANIA
RI	RHODE ISLAND
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
TN	TENNESSEE
TX	TEXAS
UT	UTAH
VT	VERMONT
VA	VIRGINIA
WA	WASHINGTON
WV	WEST VIRGINIA
WI	WISCONSIN
WY	WYOMING

STATE PROGRAM RANKINGS: HOW STATES MEASURE UP

	AIR PROGRAMS	SOIL CONSERVATION PROGRAMS	GROUNDWATER PROGRAMS	HAZARDOUS WASTE PROGRAMS	SOLID WASTE PROGRAMS	RENEWABLE ENERGY & ENERGY CONSERVATION	TOTAL	RANK
AL	3	3	2	3	3	2	16	26
AK	7	3	3	2	2	1	18	25
AZ	7	3	7	5	2	3	27	19
AR	1	3	2	5	3	4	18	25
CA	10	3	7	9	9	10	48	2
CO	4	6	4	3	4	3	24	21
CT	9	6	9	4	9	7	44	4
DE	1	8	6	3	4	2	24	21
FL	7	4	9	8	6	7	41	7
GA	4	5	7	4	3	3	26	20
HI	4	4	3	2	2	4	19	24
ID	2	1	6	1	2	6	18	25
IL	7	9	5	7	7	6	41	7
IN	6	5	4	6	7	8	36	10
IA	5	10	5	5	7	7	39	8
KS	2	5	8	8	4	2	29	17
KY	7	3	1	6	8	3	28	18
LA	5	3	3	7	2	1	21	23
ME	3	6	7	6	6	8	36	10
MD	3	8	7	6	6	4	34	12
MA	6	4	8	9	6	8	41	7
MI	8	7	8	9	8	3	43	5
MN	5	6	5	9	9	4	38	9
MS	1	3	2	4	2	2	14	28
MO	5	6	7	8	1	4	31	15
MT	2	5	6	3	1	6	23	22
NE	4	6	6	2	6	7	31	15
NV	2	6	4	2	2	7	23	22
NH	6	5	5	7	5	4	32	14
NJ	9	6	7	10	10	5	47	3
NM	1	2	8	5	1	6	23	22
NY	5	5	10	8	8	7	43	5
NC	8	7	8	6	6	7	42	6
ND	1	3	4	2	3	3	16	26
OH	8	8	4	5	5	4	34	12
OK	5	5	5	4	7	3	29	17
OR	6	2	7	5	7	8	35	11
PA	8	6	5	5	3	5	32	14
RI	6	4	6	4	7	3	30	16
SC	6	5	7	5	2	6	31	15
SD	1	8	6	2	2	4	23	22
TN	3	3	4	7	5	7	29	17
TX	7	2	2	5	3	7	26	20
UT	3	4	3	2	1	3	16	26
VT	3	3	5	6	4	7	28	18
VA	8	7	6	2	3	7	33	13
WA	8	1	6	5	5	3	29	17
WV	2	5	2	4	1	1	15	27
WI	9	8	8	7	8	9	49	1
WY	1	3	8	1	2	1	16	26


AVERAGE ANNUAL EROSION OF CROPLAND
SHEET, RILL, AND WIND EROSION
WA
OR
CA
ID
NV
MT
WY
UT
AZ
CO
NM
ND
SD
NE
KS
OK
TX
MN
IA
MO
AR
LA
WI
IL
MS
MI
IN
KY
TN
AL
OH
WV
GA
FL
SC
NC
VA
PA
NY
ME
VT
NH
MA
CT
RI
NJ
DE
MD
14 or more
5 to 13.9
2 to 4.9
Less than 2
IN TONS PER ACRE PER YEAR
SOURCE: 1982 National Resource Inventory

SOIL CONSERVATION--THE BIG PICTURE

On average, cropland in the United States loses 4.4 tons per acre annually. In simple dollar amounts, the production problems caused by this erosion are estimated to cost $2 billion annually. Runoff carrying pesticides, herbicides, and sediment into water supplies pushes estimates of erosion related damage to $13 billion. For water, land, and productivity, the effect is a cumulative one.

Today, a total of about 118 million acres of some 345 acres of land classified as highly erodible are being cropped. According to the most recent surveys, the amount of cropland needing erosion control increased in 26 states, decreased in 21 states and remained the same in 2 states between 1977 and 1982.

To conserve soil and restore land to production can take decades and more money than farmers often have to spend. And beyond fighting the onslaught of drought, floods, and wind--the technology used in farming, and political and economic storms can also accelerate the stripping of cropland.

The backbone of soil conservation efforts is the Soil Conservation Service of the federal Department of Agriculture. The program was established in 1936 following severe drought and dust storms. It has organized soil conservation districts in every state and coordinates its work with state and local government. The traditional solution the program advocates is "conservation tillage"--the use of a variety of practices that eliminate the use of the moldboard plow and leave some crop residues on the soil after harvest.

Critics of traditional conservation tillage argue that it depends too heavily on herbicides for weed control and increases the threat of groundwater contamination. They advocate organic farming methods--legume based crop rotations, biological pest control, cover crops and shallow tillage--to reduce both erosion and minimize uses of herbicides and pesticides.

Policies on soil conservation are generally carrot-and-stick programs which pressure farmers to take action and reward them for their work. About half of the states carry out cost-sharing for conservation efforts undertaken by farmers. Many states also have erosion and sediment control laws and require soil conservation plans to be approved before virgin land is plowed. Added to these policies, the federal government recently included several incentives in the 1985 farm bill aimed at increasing soil conservation. One voluntary program allows farmers to place highly erodible land into a "conservation reserve" for 15 years in return for federal subsidies. Another provision establishes "sodbuster" regulations to discourage new cultivation on highly erodible land. Farmers now producing crops on highly erodible land have until 1995 to put conservation plans into effect, or lose USDA assistance and subsidies for any of their crops.

Ultimately, government policy may help, but the extent and success of soil conservation will be decided by economic pressures and the commitment of those farming the land.

SOIL SNAPSHOT

Iowa represents the best program in soil conservation under policies now in use. While some areas of the state are losing 14 or more tons of soil per acre each year, the state averages a loss of 9.4 tons per acre. Given the magnitude of this problem, state officials have implemented policies that combine soil loss limits with erosion and sediment control laws and a requirement for approved soil conservation plans before virgin land can be plowed. The state also offers cost-sharing with farmers for implementation of conservation measures. Of the sixty-nine percent of the cropland needing conservation tillage, fifty-one percent is now being farmed with those methods.

RANKING NOTES

States were ranked on a scale of one to ten on the strength of their environmental policies. The rank is not meant to judge particular environmental conditions in each state, but considers environmental problems as a need for program strength. Key factors weighed against this need are: legislative authority for programs, scope of established programs, extent of funding, monitoring and enforcement, and indications of progress. Although institutionalized programs rather than innovative projects are given greater weight--attention is given to assure that states did not simply "paper over" a problem with legislation.

The broad background for soil conservation rankings was the amount of tons lost per acre of cropland. Also considered as a broad measure were the percentages of cropland needing erosion control and the amount of land being tilled with such methods. Erosion and sediment control laws were seen as essential pieces of soil conservation legislation. Added to this are established soil loss limits and cost-sharing for soil conservation projects. The most effective state programs combine cost-sharing with requirements for approval of land use plans before new land is ploughed, and adequate enforcement and penalties.

Within the context of a state's erosion problem state and local funds appropriated were considered as a measure of commitment to carry out programs. Consideration was also made of states that have seen progress in saving soil between the 1977 and 1982 surveys.

SOIL CONSERVATION MATRIX

	STATEWIDE CONSERVATION PROGRAM[1]	EROSION AND SEDIMENT CONTROL LAW[2]	ESTABLISHED SOIL LOSS LIMITS	APPROVED PLAN REQUIRED BEFORE SOIL CAN BE DISTURBED	PROVISIONS FOR ENFORCEMENT AND PENALTIES	COST-SHARING FOR SOIL CONSERVATION	AVG. TONS LOST (SHEET & RILL) PER ACRE ON TOTAL CROPLAND[3], 1982	PERCENTAGE OF CROPLAND NEEDING EROSION CONTROL	PERCENTAGE OF TOTAL CULTIVATED ACRES IN CONSERVATION TILLAGE, 1982	FUNDS APPROPRIATED BY STATE & LOCAL GOV'TS FOR SOIL CONS. PROGRAMS, 1985[4]
AL	•					•	7.1	63%	23%	2,290
AK	•						ND	ND*	20	733
AZ	•						0.5	15*	5	4,920
AR	•					•	4.9	45	12	3,619
CA	•						1.2	11*	3	7,997
CO	•	•		•			2.2	68*	36	627
CT	•	•		•		•	2.8	27	15	2,267
DE	•	•		•	E	•	2.0	17	77	5,748
FL	•				E		2.0	36*	8	3,223
GA	•	•		•			6.4	63*	23	5,266
HI	•	•					6.4	41*	1	2,125
ID	•					•	5.0	58*	24	518
IL	•		•		E,P,	•	7.0	43	33	14,764
IN	•						5.5	43*	41	3,991
IA	•	•	•	•	P	•	9.4	69*	51	14,227
KS	•					•	2.7	51*	51	4,484
KY	•						9.5	46	54	5,591
LA	•						4.6	40	5	3,965
ME	•	•		•		•	2.1	35	18	1,223
MD	•	•		•	E	•	5.0	46	69	5,515
MA	•						2.1	19	5	5,047
MI	•	•		•	E		2.6	36*	26	2,549
MN	•		•			•	2.5	53*	22	16,293
MS	•					•	7.5	42	15	1,141
MO	•					•	9.8	52	39	19,020
MT	•			•		•	1.6	61*	39	2,582
NE	•					•	5.2	34*	40	20,305
NV	•	•			E		0.1	5*	44	110
NH	•	•		•			1.2	40*	14	253
NJ	•	•		•		•	1.3	55*	29	2,757
NM	•						1.3	43*	38	645
NY	•	•		•			3.0	31	12	19,590
NC	•	•		•	E	•	6.8	45	29	6,997
ND	•						1.9	50*	23	2,096
OH	•	•	•	•	E	•	3.7	34*	37	11,374
OK	•	•				•	2.2	42	30	5,907
OR	•						4.0	53*	29	3,744
PA	•	•		•	E	•	5.3	53	43	1,201
RI	•						2.5	36*	8	80
SC	•	•		•		•	3.6	27	9	3,715
SD	•	•	•	•	E	•	2.6	40	35	1,221
TN	•						10.0	54	24	1,736
TX	•						2.6	55*	16	10,284
UT	•					•	0.8	21*	16	23,128
VT	•					•	1.3	17	5	280
VA	•	•		•	E	•	6.2	43	55	4,383
WA	•						4.5	69*	30	1,152
WV	•						2.6	19	47	3,085
WI	•	•	•	•		•	4.5	46	23	12,132
WY	•						1.0	20	13	421

* increased since 1977

FOOTNOTES FOR SOIL CONSERVATION MATRIX

1. Statewide conservation programs are the most fundamental effort to save topsoil.

2. Erosion and seidment control laws, soil loss limits, and other state provisions are the next stage of soil conservation policy.
Source: "Summary of Principal Provisions of State Laws Providing for Erosion and Sediment Control," prepared by Mary Gardner, National Association of Conservation Districts, Washington, DC, July 1985.

3. Sheet and rill erosion are the primary types of damage to cropland.
Source: Figures are from the National Resources Inventory, USDA, Washington, DC, 1982.

4. Figures on soil requiring conservation tillage are from the Nation Survey of Conservation Tillage, Soil Conservation Service, Washington DC, 1983.

5. Figures on funds appropriated are from Agricultural Statistics, USDA, Washington, DC, 1985.

SCOPE OF STATE PROGRAMS

STATE	COST-SHARING FOR SOIL CONSERVATION	TAX CREDIT PROGRAM	COST-SHARING FOR WATER QUALITY PROGRAM	WIND EROSION CONTROL INCENTIVE PROGRAM	PERMANENT SOIL CONSERVATION LOAN PROGRAM	COST-SHARING FOR DAMS	COST-SHARING FOR PLANTING TREES	RANGE IMPROVEMENT LOAN
AL	X							
AK		X						
AZ								
AR	X							
CA								
CO								
CT	X							
DE	X							
FL								
GA								
HI								
ID	X		X					
IL	X							
IN								
IA	X		X	X	X			
KS	X		X			X		
KY								
LA								
ME	X							
MD	X		X					
MA								
MI								
MN	X		X					
MS	X		X			X		
MO	X		X					
MT	X		X			X	X	X
NE	X		X			X	X	
NV								
NH								
NJ	X		X					
NM								
NY								
NC	X	X	X			X		
ND			X					
OH	X		X					
OK	X		X					
OR								
PA	X							
RI								
SC	X	X	X		X	X		
SD	X							
TN								
TX								
UT	X						X	
VT	X							
VA	X	X	X			X		
WA								
WV								
WI	X		X					
WY								

PROVISIONS, BUDGET, & STAFF

STATE	PUBLIC MEETINGS HELD	INFORMATION MATERIALS DEVELOPED	STATE AUTHORITY TO ADOPT PROGRAM IF LOCAL AGENCY FAILS TO	STATE AUTHORITY TO APPROVE LOCAL PLAN	STATE AUTHORITY TO APPROVE STATE & FEDERAL PLANS	LONG-TERM CONSERVATION PROGRAM COMPLETED	FUNDS APPROPRIATED BY STATE & LOCAL GOVTS FOR CONSERVATION PROGRAMS (1985)	NUMBER OF EMPLOYEES (1983)
AL	X	X				X	2,960	331
AK	X					X	733	45
AZ	X					X	4,920	175
AR		X				X	3,619	337
CA		X					7,997	589
CO	X	X				X	627	400
CT	X					X	2,267	—
DE	X		X	X	X	X	5,748	17
FL	X	X				X	3,223	293
GA	X	X	X	X		X	5,266	370
HI	X		X			X	2,125	74
ID	X	X				X	518	289
IL	X	X	X	X	X	X	14,764	490
IN	X	X				X	3,991	460
IA	X	X		X		X	14,227	500
KS	X	X				X	4,494	524
KY						X	5,591	821
LA	X	X				X	3,965	194
ME	X	X				X	1,223	80
MD	X	X	X	X	X	X	5,515	120
MA	X					X	5,047	—
MI	X	X		X		X	2,549	415
MN	X	X		X		X	16,293	460
MS						X	1,141	410
MO	X	X				X	19,020	555
MT	X				X	X	2,582	295
NE	X	X				X	20,305	350
NV	X	X					110	—
NH						X	253	50
NJ	X	X		X			2,757	80
NM	X	X				X	645	291
NY	X	X				X	19,598	—
NC	X	X	X	X	X	X	6,997	487
ND	X	X				X	2,096	272
OH	X		X	X		X	11,374	440
OK	X	X				X	5,907	445
OR	X	X				X	3,744	320
PA	X			X	X	X	1,201	—
RI						X	80	15
SC	X					X	3,715	228
SD	X	X				X	1,221	344
TN	X	X				X	1,736	475
TX	X	X				X	10,284	1005
UT	X	X				X	23,128	194
VT	X					X	280	67
VA	X	X	X	X	X	X	4,383	317
WA	X	X				X	1,152	251
WV	X	X				X	3,085	113
WI	X	X		X		X	12,132	429
WY	X					X	421	185

TOTAL CROPLAND EROSION 1982
(Sheet & Rill)

STATE	TOTAL ACRES (1000)	TONS (1000)	AVERAGE TONS/ACRE
IA	26,440.7	247,791.8	9.4
IL	24,727.4	172,432.0	7.0
MO	14,998.4	146,452.9	9.8
NE	20,276.7	105,035.4	5.2
TX	33,319.6	87,413.8	2.6
KS	29,118.3	79,830.1	2.7
IN	13,781.3	75,791.8	5.5
MN	23,024.1	57,706.3	2.5
KY	5,934.2	56,537.3	9.5
TN	5,592.1	55,896.4	
MS	7,415.3	55,268.1	7.5
ND	27,039.2	52,379.7	1.9
WI	11,456.8	51,141.3	4.5
OH	12,447.1	46,587.3	3.7
NC	6,694.8	45,667.2	6.8
SD	16,947.2	44,537.9	2.6
GA	6,568.4	41,713.7	6.4
AR	8,101.5	39,362.1	4.9
WA	7,793.4	37,194.6	4.8
AL	4,510.3	32,183.1	7.1
ID	6,390.1	32,132.0	5.0
PA	5,896.3	31,171.1	5.3
LA	6,408.9	29,310.2	4.6
MT	17,196.9	26,614.1	1.6
OK	11,568.1	25,034.1	2.2
CO	10,602.7	22,876.0	2.2
VA	3,396.9	21,008.8	6.2
MI	9,443.1	20,982.5	2.6
NY	5,912.1	17,413.3	3.0
OR	4,356.4	17,299.2	4.0
SC	3,578.7	12,931.6	3.6
CA	10,517.7	12,138.8	1.2
MD	1,794.4	8,890.3	5.0
FL	3,556.8	7,190.2	2.0
NJ	809.4	4,577.3	5.7
NM	2,412.7	3,110.6	1.3
WV	1,093.1	2,810.0	2.6
WY	2,587.4	2,542.0	1.0
HI	333.2	2,115.0	6.4
ME	1,988.6	1,988.6	2.1
UT	2,038.7	1,543.1	0.8
DE	519.1	1,042.0	2.0
VT	648.4	831.1	1.3
CT	244.7	694.0	2.8
MA	297.2	620.8	2.1
AZ	1,206.3	582.7	0.5
NH	157.8	191.1	1.2
RI	27.2	66.7	2.5
NV	859.7	64.1	0.1
AK	----	----	---

National Association of Conservation Districts

NACD/CTIC SURVEY -- 1985

NATIONAL

STATE	ACRES	NOTILL	RIDGETILL	STRIPTILL	MULCHTILL	RED. TILL	CONS. TILL*
ALABAMA	3,451,757	261,096	60	66,600	470,365	0	798,121
ALASKA	33,415	16	0	0	6,151	540	6,707
ARIZONA	993,905	4,820	0	0	16,675	34,104	55,599
ARKANSAS	6,956,143	110,074	1,380	50	247,388	516,248	875,140
CALIFORNIA	7,882,582	40,788	1,310	50	61,967	154,175	256,290
COLORADO	7,187,727	154,102	27,248	32,440	1,074,289	1,320,862	2,608,941
CONNECTICUT	89,834	6,844	45	0	6,300	0	13,189
DELAWARE	616,856	256,182	0	700	220,519	0	477,401
FLORIDA	2,614,482	39,669	9,725	543	56,630	109,714	215,281
GEORGIA	5,888,599	246,396	450	7,057	1,110,408	5,500	1,369,811
HAWAII	316,850	0	0	0	0	4,500	4,500
IDAHO	4,508,943	208,524	1,036	0	488,290	384,522	1,083,372
ILLINOIS	23,283,444	1,461,697	202,330	12,640	6,079,901	0	7,756,568
INDIANA	12,425,826	926,959	171,824	22,035	4,011,333	19,500	5,151,651
IOWA	23,705,631	822,168	277,908	48,811	10,927,865	0	12,076,752
KANSAS	21,828,162	659,758	66,790	5,940	5,366,115	5,082,772	11,181,375
KENTUCKY	4,294,298	962,112	600	255	452,589	922,980	2,338,536
LOUISIANA	4,628,984	51,683	0	45	91,605	123,449	266,782
MAINE	310,885	1,901	600	0	28,505	25,147	56,153
MARYLAND	1,526,346	462,546	0	1,100	587,838	0	1,051,484
MASSACHUSETTS	79,536	2,110	0	0	559	1,575	4,254
MICHIGAN	6,555,558	325,361	16,271	3,876	1,379,881	0	1,725,389
MINNESOTA	18,721,833	125,115	384,341	29,782	3,827,168	10,875	4,377,281
MISSISSIPPI	5,415,054	120,119	1,086	10	212,705	460,086	794,006
MISSOURI	11,402,711	896,891	9,005	11,441	3,493,092	0	4,410,429
MONTANA	8,545,014	371,832	5,200	162	1,548,544	1,418,859	3,344,598
NEBRASKA	16,360,355	531,469	490,144	275,413	3,936,189	1,302,457	6,535,672
NEVADA	142,523	4,243	0	0	25,342	33,283	62,868
NEW HAMPSHIRE	28,526	1,279	0	0	1,258	1,533	4,070
NEW JERSEY	521,588	80,001	0	0	205	69,278	149,484
NEW MEXICO	1,325,346	24,698	6,340	2,650	179,824	285,937	499,449
NEW YORK	2,733,676	69,624	518	400	59,845	213,768	344,155
NORTH CAROLINA	5,177,722	705,942	39,093	19,115	442,911	317,182	1,524,243
NORTH DAKOTA	19,058,627	653,063	13,070	0	1,910,497	1,872,444	4,449,074
OHIO	9,956,194	1,263,351	47,400	500	1,897,540	514,110	3,722,901
OKLAHOMA	8,673,761	80,319	5,190	12,180	2,275,147	495,330	2,868,166
OREGON	2,283,742	130,168	0	440	314,242	223,310	668,160
PENNSYLVANIA	3,149,644	610,931	1,006	50	436,261	300,464	1,348,712
RHODE ISLAND	9,255	468	0	0	280	0	748
SOUTH CAROLINA	2,884,847	130,761	150	9,915	37,416	82,233	260,495
SOUTH DAKOTA	13,896,920	342,313	83,057	10,401	4,456,885	0	4,892,656
TENNESSEE	4,006,240	450,992	2,520	1,454	528,136	1,335	984,437
TEXAS	24,841,453	307,824	45,011	19,870	2,140,582	1,589,863	4,103,150
UTAH	654,888	27,207	0	0	28,646	46,885	102,736
VERMONT	145,253	4,547	0	0	250	2,344	7,141
VIRGINIA	2,357,711	691,632	3,000	6,138	349,782	251,834	1,302,386
WASHINGTON	5,354,466	95,321	10,000	4,000	1,226,848	282,263	1,618,432
WEST VIRGINIA	151,319	49,026	0	0	13,092	8,114	71,232
WISCONSIN	6,962,516	186,620	38,855	17,030	1,194,568	196,067	1,615,140
WYOMING	813,860	6,704	360	0	60,095	38,464	105,623
PUERTO RICO	76,024	1,608	0	0	27,299	11,576	40,483
NATIONAL	310,802,831	14,946,895	1,962,923	623,103	63,309,832	18,738,482	99,584,235

* SUM OF NOTILL,RIDGETILL,STRIPTILL,MULCHTILL,REDUCED TILL

Agricultural Conservation Program and Emergency Conservation Program: Participation and assistance, by States and Caribbean area, 1984 fiscal year

State or Territory	Agricultural conservation program					Emergency conservation program		
	Participating farms	Area served	Assistance			Participating farms	Area served	Assistance
			Regular	Long term	Total assistance			
	Number	*1,000 acres*	*1,000 dollars*	*1,000 dollars*	*1,000 dollars*	*Number*	*1,000 acres*	*1,000 dollars*
Ala	4,973	120	3,104	730	3,834	80	5	86
Alaska	43	3	110	39	149			
Ariz	534	208	1,181	128	1,277	253	306	4,082
Ark	4,347	163	2,604	381	2,985	19	5	70
Calif	1,510	129	2,554	316	2,870	346	94	2,597
Colo	2,067	221	3,350	487	3,837	275	45	208
Conn	518	17	177	95	272	11	(1)	39
Del	408	21	205	19	224			
Fla	3,171	180	2,566	819	3,385			
Ga	5,515	133	3,416	346	3,762	55	2	90
Hawaii	264	32	470	68	538	9	1	24
Idaho	1,503	116	2,213	406	2,621	6	1	23
Ill	4,257	92	5,203	916	6,119	7	(1)	10
Ind	4,374	127	3,469	433	3,902			
Iowa	6,604	153	5,899	642	6,541	91	1	58
Kans	8,483	178	3,378	664	4,042			
Ky	3,913	110	3,027	651	3,678	61	(1)	55
La	4,561	198	2,784	354	3,138			
Maine	1,258	30	1,042	393	1,435			
Md	627	10	589	345	934			
Mass	522	17	317	32	349	11	(1)	81
Mich	6,013	197	3,072	305	3,377			
Minn	8,523	308	4,682	424	5,106	1	(1)	2
Miss	4,927	93	3,448	491	3,939	268	10	247
Mo	7,084	154	6,134	431	6,565	9	(1)	3
Mont	2,586	798	3,613	489	4,102			
Nebr	3,631	306	3,033	315	3,348	172	9	217
Nev	292	42	534	219	753	68	22	313
N.H	527	22	396	40	435	7	(1)	9
N.J	816	41	318	25	350			
N. Mex	1,194	575	1,612	235	1,847	6	2	38
N.Y	3,600	80	3,144	459	3,603	6	(1)	22
N.C	20,437	296	2,969	295	3,264	294	17	178
N. Dak	4,661	340	3,202	347	3,549			
Ohio	5,157	102	2,743	362	3,106			
Okla	4,771	274	4,106	402	4,508	283	96	739
Oreg	1,655	211	2,749	378	3,127	35	8	114
Pa	3,892	71	2,731	301	3,032	64	1	39
R.I	189	3	69	12	81			
S.C	3,128	106	1,763	215	1,978	28	3	43
S. Dak	8,790	280	1,829	181	2,010	63	8	72
Tenn	7,169	142	2,493	487	2,980	51	6	133
Tex	16,517	1,255	11,730	1,341	13,071	122	26	497
Utah	1,103	184	1,838	1,771	3,609	615	86	1,545
Vt	606	12	830	61	891	43	1	40
Va	5,676	105	2,090	200	2,290			
Wash	2,145	180	3,344	428	3,774	8	1	78
W. Va	3,692	44	1,038	140	1,178			
Wis	4,784	99	3,342	356	3,718	16	(1)	13
Wyo	661	174	1,001	347	1,348	23	6	50
U.S	177,281	8,873	129,478	19,255	148,733	3,495	761	12,024
P.R	583	9	379	46	425			
V.I	11	1	17	0	17			
Total	177,875	8,883	129,874	19,301	149,175	3,495	761	12,024

[1] Less than 500 acres served.

Agricultural Stabilization and Conservation Service. Totals are the sum of rounded data.

Agricultural Conservation Program: Selected conservation and pollution abatement practices performed, by States and Caribbean area, 1984 fiscal year

State or Territory	Regular annual agreements						
	Diversions (area served)	Conservation tillage	Permanent wildlife habitat (area served)	Sediment retention, erosion, or water control structures	Sod waterways (area served)	Windbreaks (area served)	Irrigation water conservation (area served)
	Acres	*Acres*	*Acres*	*Number*	*Acres*	*Acres*	*Acres*
Ala	879	38,966	868	51	1,585		
Alaska		973			10		
Ariz							
Ark	27	3,681		119		40	14,819
Calif	1,486	8,053		878	4		43,866
Colo	991	14,118		142		59	54,230
Conn		1,207	107	71	140	3,175	67,240
Del		16,029			1	5	
Fla	52	3,190	2	13	10	39	
Ga	185	3,368		852	426		7,246
Hawaii	91		100	2	3,070		
Idaho				4	427	202	706
Ill	88	14,963	24	99	1,015	119	39,971
Ind	1,866	24,949	48	401	10,506	173	
Iowa	669	52,590	122	1,284	9,925	89	
Kans	223	97,209	760	215	7,316	496	
Ky	2,560	4,280	496	39	6,100	841	16,118
La	1,349	25,448	10	107	6,367		
Maine		23,536		1,504	1,920		7,200
Md	853	6,786		44	1,361		
Mass	361	229		54	1,974		
Mich	18	1,075		6	39	1	97
Minn	2,046	65,236	4,603	260	5,276	1,172	
Miss	45,506	74,780	2,949	197	6,529	20,706	
Mo	1,529	18,333	41	1,272	501		
Mont	1,278	8,703		286	5,634		
Nebr	9	39,186	217	9	10,818	1,624	84,602
Nev	2,471	3,962	9	73	4,654	3,460	14,211
N.H				86		39	21,250
N.J	94	96	13	6	71		
N. Mex	110	361		4	870	106	14
N.Y	3,901	6,616		247		234	18,991
N.C	1,474	23,731	49	27	705	101	219
N. Dak	194	48,229	1	45	2,420	289	
Ohio	2,434	240	4,981	6	20,378	44,616	365
Okla	302	45,018	91	1,194	6,607	225	
Oreg	19,329	1,406	2	279	24,342	57	7,809
Pa	2,230	28,587	13	116	1,553	123	28,236
R.I	2,206	8,517	3	104	2,548	1	
S.C	2	14		9	15		
S. Dak	17	38,709			967		
Tenn	93	21,840	3,589	1	1,428	13,522	890
Tex	2,146	51,296	15	738	2,186		
Utah	9,060	3,953	6	368	34,778	89	156,642
Vt	276			13			28,236
Va	576	1,314	523	87	256	2	
Wash	106	25,509	56	19	2,193		
W. Va	710	78,456	7	72	926	133	13,864
Wis	16	1,568	3		33		
Wyo	1,940	26,644	1,278	90	8,588	196	
		946		1		95	28,008
U.S	100,846	960,268	22,256	11,094	186,894	91,738	646,648
P.R	5						
V.I							
Total	100,851	960,268	22,256	11,094	186,894	91,738	646,648

Agricultural Conservation Program: Selected conservation and pollution abatement practices performed, by States and Caribbean area, 1964 fiscal year—Continued

State or Territory	Regular annual agreements—Continued						
	Establishing permanent cover	Improving permanent cover	Planting trees	Timber stand improvement	Water impoundment reservoirs	Strip-cropping	Terrace systems (area served)
	Acres	Acres	Acres	Acres	Number	Acres	Acres
Ala.	12,187	1,786	5,886	1,370	39		3,843
Alaska	617	127	6				
Ariz.	39	168,400			4		
Ark.	12,290	29,686	600	172	762		14
Calif.	1,370	16,913	206	129	6		
Colo.	4,667	22,667	80	22	29		13,300
Conn.	1,148	189	14	65	1	51	
Del.	207		6				15
Fla.	16,523	9,025	7,918	1,480			861
Ga.	16,014	21,843	6,276	822	85		11,840
Hawaii	179	7,717			4		270
Idaho	6,324	12,712	84	100	6	172	4,312
Ill.	7,744	2,979	128	474	97	8,741	9,979
Ind.	10,084	6,131	386	1,723	180		1,436
Iowa	12,492	7,897	190	89	99	6,497	16,376
Kans.	4,456	2,974	6		27		66,542
Ky.	26,060	10,865	189	142	75	586	422
La.	10,702	22,819	621	9	80		926
Maine	1,779	327	1,040	1,971		306	22
Md.	648	324	763	302	6	1,366	38
Mass.	894	76	84	166	1	6	
Mich.	20,126	1,514	2,342	277	1	452	
Minn.	10,502	524	2,562	975	257	8,218	4,220
Miss.	13,474	8,875	1,685	177	707		2,878
Mo.	22,411	19,792	121	446	916	121	20,254
Mont.	36,663	158,142	6	492	24	14,136	
Nebr.	3,858	14,552	22		88	2,101	37,791
Nev.	319	4,017					
N.H.	1,116	847	6	576		42	53
N.J.	1,866	19	2		2	87	150
N. Mex.	1,748	97,361		106	9		2,663
N.Y.	18,309	431	689	843	4	4,213	159
N.C.	7,417	86,227	1,726	164	13	970	661
N. Dak.	48,552	509	45	2	71	4,476	1,393
Ohio	8,384	11,238	261	800	2	197	5
Okla.	42,397	8,344	163		1,045		36,231
Oreg.	6,573	42,782	1,516	2,211	22		13,756
Pa.	12,186	5,623	216	670	8	14,001	943
R.I.	19	41	10	14			9
S.C.	4,006	6,341	4,125	1,667	28	2,096	662
S. Dak.	53,265	11,486	10	30	62	9,182	2,520
Tenn.	27,279	13,255	184	15	617	113	2,779
Tex.	71,396	225,639	852	121	860		53,256
Utah	1,407	53,735			2		2,461
Vt.	2,681			57	2	176	
Va.	8,981	23,045	1,644	225	44	630	110
Wash.	9,281	16,744	2,292	4,160	11	10,974	2,520
W. Va.	1,589	36,814	74	61	20		
Wis.	9,016	665	5,361	1,482	18	11,102	984
Wyo.	2,992	25,630		33	6		80
U.S.	619,296	1,108,219	50,951	22,838	5,647	98,287	317,204
P.R.	635	2,123	118	2	1		827
V.I.	125	861					
Total	620,056	1,106,203	51,069	22,840	5,648	98,287	318,041

·Agricultural Conservation Program: Selected conservation and pollution abatement practices performed, by States and Caribbean area, 1964 fiscal year—Continued

State or Territory	Long-term agreements						
	Diversions (area served)	Conservation tillage	Permanent wildlife habitat (area served)	Sediment retention, erosion, or water control structures	Sod waterways (area served)	Windbreaks (area served)	Irrigation water conservation (area served)
	Acres	*Acres*	*Acres*	*Number*	*Acres*	*Acres*	*Acres*
Ala.	164	1,543	27	66	794		
Alaska	10	744				174	
Ariz.							
Ark.	20	101	2	12	74		1,975
Calif.	51		60	30			7,510
Colo.	82	100		16	100	640	5,944
Conn.	10	23		1	2		6,539
Del.		254					
Fla.		554					
Ga.	52	168		156			2,589
Hawaii	20			2	907		
Idaho	29					6	
Ill.	216	3,902	4	54	992		2,025
Ind.	110	1,578	4	64	250	1	
Iowa	41	1,108	12	226	758	2	
Kans.	166	384		23	41	3	
Ky.	963	421		6	716	6	64
La.		287	1	23	2,971		
Maine	547	4,842		98	130		4,441
Md.	17			9	287		
Mass.					41		
Mich.	27	48					45
Minn.	92	2,961	60	54	594	44	
Miss.	165	1,822	277	21	191	266	
Mo.	122	843		44	214		
Mont.	200	784	30	19	231		
Nebr.	160			1	811		6,471
Nev.		92		22	1,431	287	390
N.H.	17						6,804
N.J.					12		
N. Mex.	2,160	14			27	5	35
N.Y.	648			6	230		1,122
N.C.	53	1,462		18	413		16
N. Dak.	108	496	227	2	854		
Ohio	68	18,228	27		592	230	30
Okla.	1,187	1,362	18	21	731	20	
Oreg.	221		80	41	607		2,058
Pa.	784	5,473	6	18	560		801
R.I.	4	61	1	9	668		
S.C.	6	20		1	2		
S. Dak.		1,242		1	217		
Tenn.	302	1,710	139		100	1,842	497
Tex.	1,909	4,476		82	295		
Utah		160		4	2,361		5,149
Vt.	96	2	19	2			12,554
Va.	121	319	90	8	25		
Wash.		1,060		1	178	26	
W. Va.	14	10		1	1	41	2,168
Wis.	153	585	27	1	6		
Wyo.		1,708		25	1,360	2	
						20	4,627
U.S.	11,181	58,941	1,201	1,266	19,631	3,518	73,363
P.R.							
V.I.							
Total	11,181	58,941	1,201	1,266	19,631	3,518	73,363

-Agricultural Conservation Program: Selected conservation and pollution abatement practices performed, by States and Caribbean area, 1984 fiscal year—Continued

State or Territory	Long-term agreements—Continued						
	Establishing permanent cover	Improving permanent cover	Planting trees	Timber stand improvement	Water impoundment reservoirs	Stripcropping	Terrace systems (area served)
	Acres	*Acres*	*Acres*	*Acres*	*Number*	*Acres*	*Acres*
Ala	2,930	478	694		13		2,402
Alaska	277						
Ariz		1,056					
Ark	1,958	2,018	79		22		81
Calif	217	1,488		10	1		
Colo	288	6,868			5		2,966
Conn	4						4
Del				8		46	64
Fla	506	900	596	22			
Ga	1,331	961	1,221		18		1,360
Hawaii		5,575			2		
Idaho	972	4,940	6		4	276	2,314
Ill	229	176	8	30	1	46	5,467
Ind	968	358	38	262	11		778
Iowa	48				6		3,577
Kans	198	419			4		13,607
Ky	1,521	462	16		6	314	804
La	1,061	984	12		1		43
Maine	226	29	48	67		807	107
Md	178	12		116	2	52	
Mass				49		27	
Mich	2,389	223	41	66	1	127	11
Minn	149	91	81	89	6	422	1,039
Miss	5,105	1,027	70	60	45		532
Mo	1,636	912			3	80	2,778
Mont	2,265	24,524				82	
Nebr	1,020	12,171			11	46	10,046
Nev		7,519					
N H	123	29				25	
N J	23				1		24
N Mex	404	7,580					640
N Y	822	145	13	101		2,802	61
N C	1,535	152	164		8	744	151
N Dak	1,271	940			2	766	8
Ohio	742	1,922	13	229	3		2
Okla	6,184	344			61		1,942
Oreg	276	3,879	90	287	2		7,530
Pa	697	416		65		1,963	538
R I							7
S C	1,473	494	106	10	18	516	230
S Dak	1,603	2,411		127	6	452	697
Tenn	2,679	2,197	33	6	36	23	450
Tex	5,812	101,907		100	51		7,194
Utah	260	21,254					1,106
Vt	97	14				46	
Va	822	1,728	17	11	5	860	21
Wash	258	1,521	115	174	1		864
W Va	66	2,796		10	9	3	
Wis	262	13	187	47		721	508
Wyo	564	9,386					
U S	46,391	230,624	3,509	1,825	339	9,469	69,538
P R	323	118					
V I							
Total	46,714	230,742	3,509	1,825	339	9,469	69,538

Agricultural Stabilization and Conservation Service.

Soil conservation districts: Dates of State Laws, number of districts organized, approximate total area and number of farms, cumulative through Sept. 30, 1954

State or Territory	Date district law became effective	Districts organized [1]	Approximate area and number of farms within organized districts	
			Total area	Farms (and ranches)
		Number	*1,000 acres*	*Thousands*
Ala.	Mar. 16, 1939	67	32,484	88
Alaska	Mar. 25, 1947	9	276,304	1
Ariz. [2]	June 16, 1941	35	62,584	8
Ark.	July 1, 1937	76	33,611	66
Calif.	June 28, 1938	121	75,302	54
Colo.	May 6, 1937	80	61,433	39
Conn.	July 13, 1946	8	2,132	4
Del.	Apr. 2, 1943	3	1,366	3
Dist. of Col.	July 13, 1982	1	44	0
Fla.	June 10, 1937	52	38,866	21
Ga.	Mar. 22, 1937	89	57,581	66
Hawaii	May 15, 1947	15	4,069	4
Idaho	Mar. 9, 1939	51	52,554	26
Ill.	July 9, 1937	98	39,095	111
Ind.	Mar. 11, 1937	92	23,102	89
Iowa	July 4, 1982	100	36,012	136
Kans.	Apr. 16, 1937	106	52,649	74
Ky.	June 11, 1940	121	35,377	102
La.	July 27, 1938	40	28,102	31
Maine	Mar. 25, 1941	16	17,539	7
Md.	June 1, 1937	24	6,273	19
Mass.	June 28, 1945	16	5,011	5
Mich.	July 23, 1937	53	37,541	60
Minn.	Apr. 26, 1937	92	37,706	99
Miss.	Apr. 4, 1938	82	30,268	84
Mo.	July 22, 1943	111	42,154	113
Mont.	Feb. 23, 1939	60	38,724	25
Nebr.	May 15, 1937	24	48,982	64
Nev.	Mar. 30, 1937	30	70,606	2
N.H.	May 10, 1945	10	5,955	3
N.J.	July 1, 1937	16	4,813	19
N. Mex.	Mar. 17, 1937	47	69,006	22
N.Y.	July 30, 1940	57	30,489	43
N.C.	Mar. 22, 1937	94	31,236	88
N. Dak.	Mar. 16, 1937	62	46,149	43
Ohio	June 5, 1941	88	26,383	96
Okla.	Apr. 15, 1937	89	43,726	72
Oreg.	Apr. 7, 1939	47	60,603	33
Pa.	July 2, 1937	66	30,352	66
R.I.	Apr. 28, 1943	2	677	1
S.C.	Apr. 17, 1937	46	19,345	29
S. Dak.	July 1, 1937	69	49,227	49
Tenn.	Mar. 10, 1939	86	36,450	97
Tex.	Apr. 24, 1939	201	169,290	174
Utah	Mar. 23, 1937	39	40,229	16
Vt.	Apr. 18, 1939	14	5,335	7
Va.	Apr. 1, 1938	44	25,630	54
Wash.	Mar. 17, 1939	49	37,072	39
W. Va.	June 12, 1939	14	15,411	17
Wis.	July 1, 1937	72	34,858	90
Wyo.	May 22, 1941	27	60,560	11
U.S.		2,921	2,184,348	2,351
P.R.	July 1, 1946	17	2,189	32
V.I.	June 1946	1	110	
Guam	May 31, 1954	2	135	.1
Total		2,941	2,186,782	2,383

[1] For specific procedure on organization of soil conservation districts, reference should be made to each of the respective State soil conservation district's laws.

[2] Includes 5 tribal districts.

Soil Conservation Service.

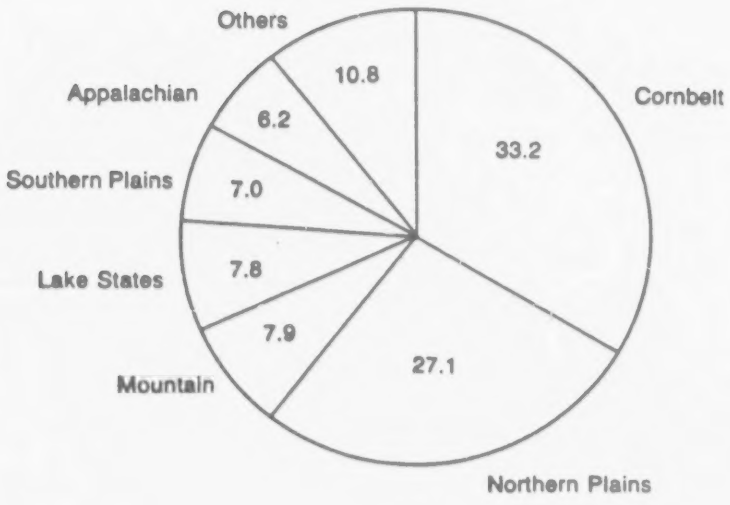
1985 National Survey Conservation Tillage Practices
Conservation Tillage Information Center
National Association of Conservation Districts

ALL CONSERVATION TILLAGE

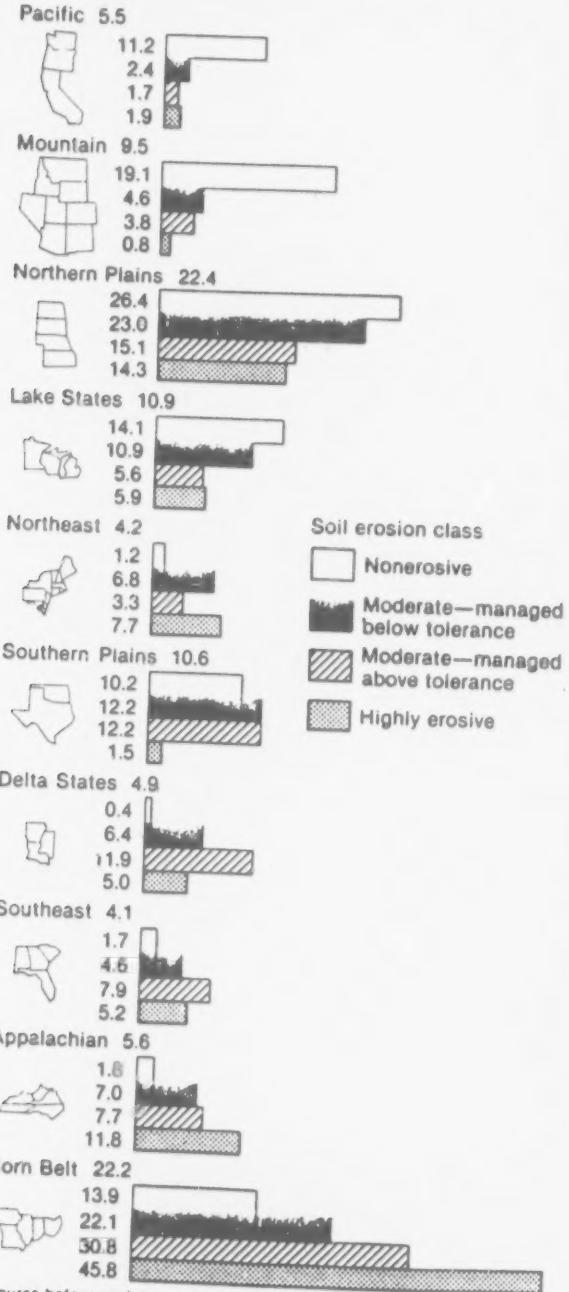
ALL CROPS — ACRES IN MILLIONS

Total - 99.6

Distribution by Region • %



Regional Distribution of Cropland Acreage Erosion by Soil Erosion Class, United States, 1977



Figures before each bar show regional share of the U.S. total in each erosion class.

Figures above bars show each region's share of the U.S. cropland acreage.

Source: "Assessing Erosion on US Cropland--Land Management and Physical Features," Nelson L. Bills and Ralph E. Hemlich, Agriculture Economic Report No. 513, USDA, Economic Research Service, July 1984

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